



## Zone 3 Supplemental Instructions

### Sandwich Doors

**16'-1" wide up through 18'-0" wide**

Design pressure: 18.5 pos / 20.7 neg

Test pressure: 27.8 pos / 31.1 neg



Arthur, IL (217) 543-2135

When installed in accordance with C.H.I. Windbreaker instructions, this door will meet or exceed the following criteria when tested to ANSI/DA-SMA 108 or ASTM E560-02.

Design pressure:

+18.5 / -20.7 psf

Test pressure:

+27.8 / -31.1 psf

Maximum Size:

18'-0" x 14'-0"

Drawing Number:

Z3-1807-02XXX



**Higher wind pressures and larger doors require additional reinforcement.**

**Premature failure of door system may result from improper application.**

**Use these instructions only for the wind pressures and door sizes as listed above.**



**These supplemental instructions do not contain basic door installation steps and relative safety information.**

**Failure to avoid basic installation steps and relative safety information may result in injury or death.**

**Door installers must follow a primary instruction manual for basic door installation steps and relative safety information.**

Garage door reinforcement details include:

Top fixture type and attachment.

Strut attachment.

Flag bracket attachment to the wall and track system.

Track bracket quantity and placement.

End hinge type and attachment.

Strut type and placement.

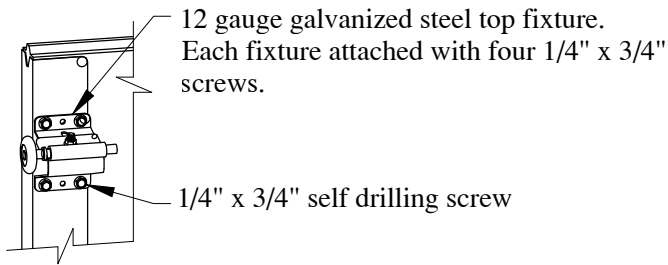
A locking system must be installed if the door is not electrically operated.

Vinyl door stop is required on all garage doors.

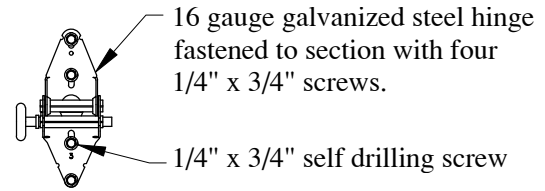
The correct selection of door and framing materials is the responsibility of the building owner/designer following local building code directives. Use of a reinforced garage door does not constitute automatic compliance with any building code. Local building code officials determine compliance criteria.

## Top Fixture Detail

(Strut, if applicable, not shown for clarity.)

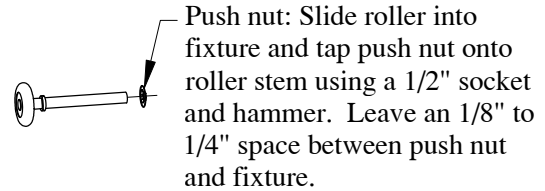


## End Hinge Detail

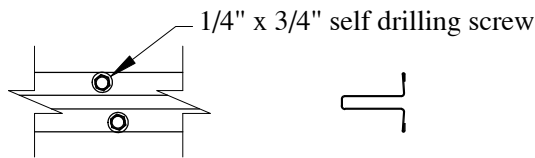


## Push Nut Detail (use on all rollers)

use 3/8" I. D. on bottom fixture roller stem  
use 7/16" I. D. on end hinge and top fixture roller stems

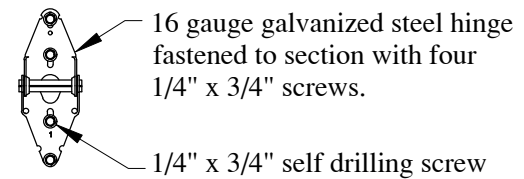


## Strut Attachment Detail

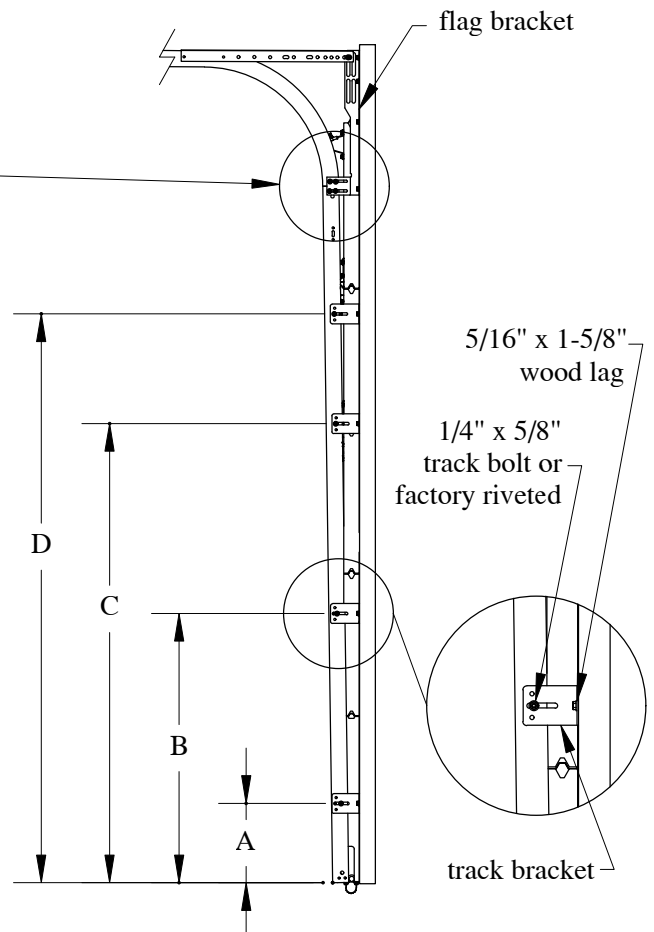
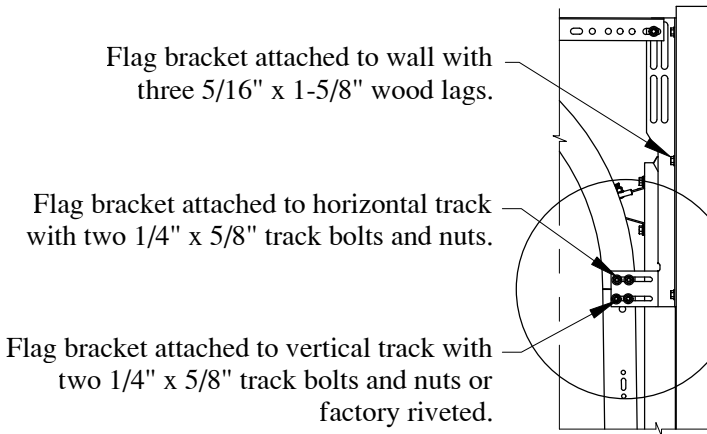


18 gauge 50ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws to every hinge plate.

## Intermediate Hinge Detail



## Flag Bracket Detail



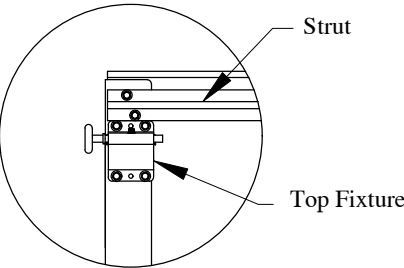
## Track Bracket Locations

	door height / four sections			door height / five sections					
	6'-6"	6'-9"	7'-0"	7'-6"	7'-9"	8'-0"	8'-3"	8'-6"	8'-9"
D	n/a	n/a	n/a	72"	69"	72"	81"	84"	87"
C	60"	63"	66"	58"	55"	58"	60"	63"	66"
B	35"	35"	38"	34"	31"	34"	32"	35"	38"
A	10"	7"	10"	10"	7"	10"	4"	7"	10"

Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.

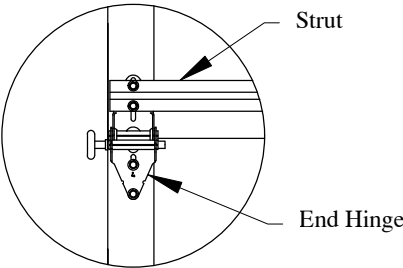
# **Four Section High Doors** **16'-1" wide up through 18'-0" wide**

## **Strut Placement**



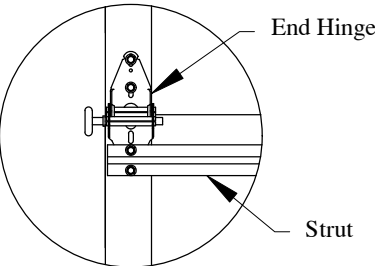
Strut above top fixture

**Detail 1**



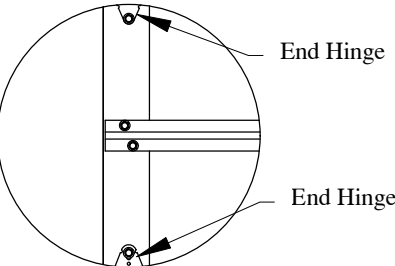
Strut on top half of hinge

**Detail 2**



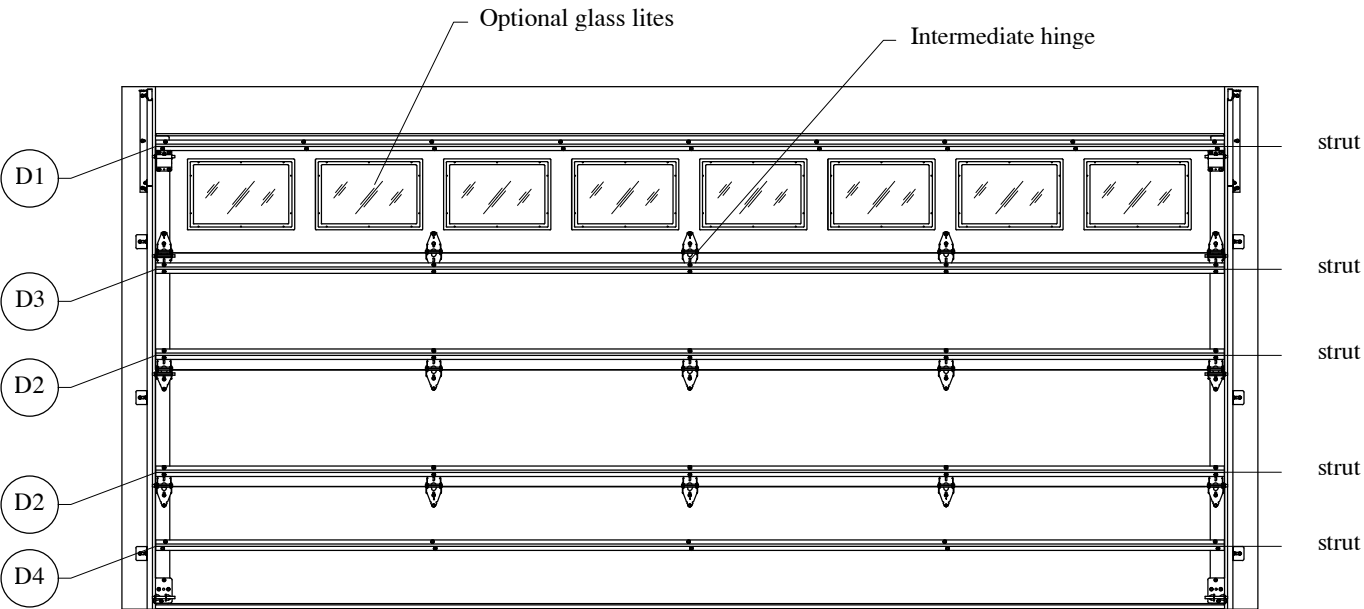
Strut on bottom half of hinge

**Detail 3**



Strut in center of section

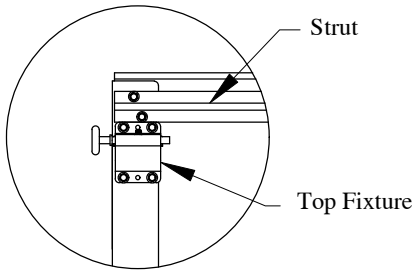
**Detail 4**



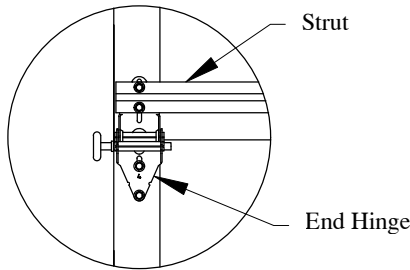
5 struts total

**Five Section High Doors**  
**16'-1" wide up through 18'-0" wide**

## Strut Placement

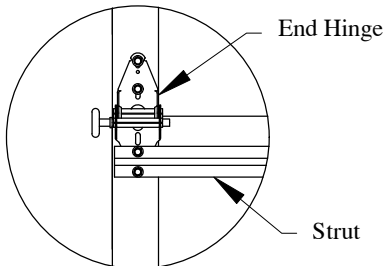


### Strut above top fixture

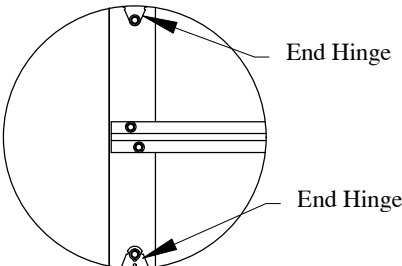


Strut on top half of hinge

### Detail 1



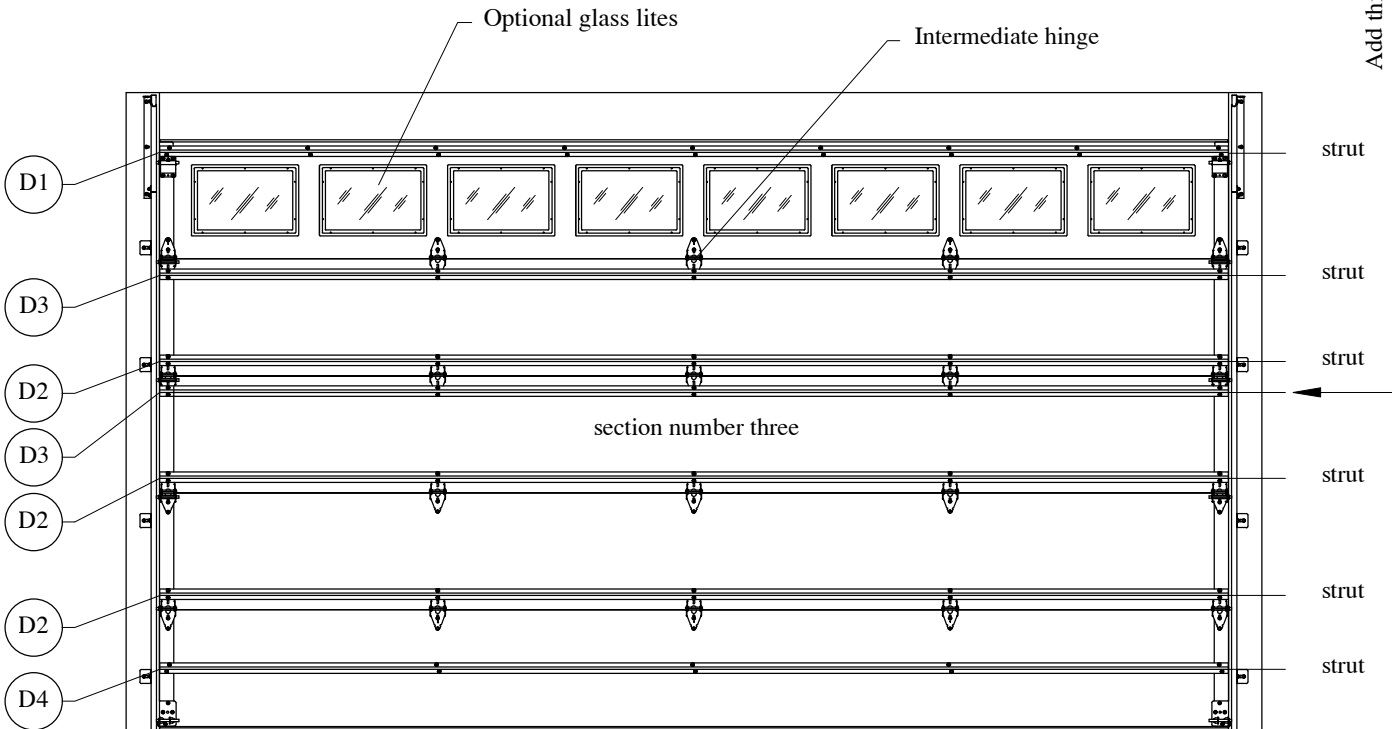
Strut on bottom half of hinge



Strut in center of section

### Detail 3

### Detail 4



Additional sections may be added for a maximum door height of 14'-0". Each additional section must have two struts as shown above in section number three and be installed above the third section.

6 struts total 7'-6" thru 8'-0"  
7 struts total 8'-3" thru 8'-9"